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DATE MAILED: 03/11/2004

APPLICATION NO.	FILING	DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/886,649	06/21/	2001	David A. Brown	2037.2008-001	2037.2008-001 4736	
21005	7590	03/11/2004		EXAMINER		
	N, BROOK, S	BAKER, PAUL A				
530 VIRGIN P.O. BOX 91				ART UNIT	PAPER NUMBER	
CONCORD,	MA 01742-9	9133		2188	٦	

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

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	Application No.	Applicant(s)				
· Office Assistant Community	09/886,649	BROWN, DAVID A.				
Office Action Summary	Examiner	Art Unit				
	Paul A Baker	2188				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day vill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 21 Ju	ıne 2001.					
	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) <u>1-23</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>7-23</u> is/are allowed.						
6)⊠ Claim(s) <u>1,2,4 and 5</u> is/are rejected.						
7)⊠ Claim(s) <u>3 and 6</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents	s have been received. s have been received in Applicati	on No				
3. Copies of the certified copies of the prior	·	ed in this National Stage				
application from the International Bureau  * See the attached detailed Office action for a list	• • • • • • • • • • • • • • • • • • • •	ad				
dee the attached detailed Office action for a list	or the certified copies not receive	su.				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		Patent Application (PTO-152)				

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#### DETAILED ACTION

### Specification

The disclosure is objected to because of the following informalities: Page 3, lines 18-20 are obtuse and difficult to understand, it appears as though applicants is disclosing a data structure which has 12 entries where 4 are on the first portion and 4 are on the second portion, these do not add up to 12. Applicant should reword this passage so an understanding the data structure in figure 2a can be derived solely from the description. As it is currently worded, a person of ordinary skill in the art is incapable of deriving applicant's intent without referring to figure 2a.

Appropriate correction is required.

#### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 4, 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Lehman et al. US Patent 5,680,161.

In regards to claim 1, Lehman discloses a method for storing a non-binary width data structure per logical row in a memory comprising the steps of:

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segmenting the non-binary width data structure into plural segments and physically mapping the segments into a memory structure smaller than would be required for the non-binary width data structure without segmenting in figure 2; and mapping a logical address into the physically arranged plural segments in figure 10 element 64.

In regards to claim 2, Lehman discloses the segments are the same size in figure 9 elements 90,93,96,99.

In regards to claim 4, Lehman discloses an apparatus for storing a non-binary width data structure, the memory comprising:

plural segments which segment the non-binary width data structure and physically map the non-binary width data structure into a memory structure smaller than would be required for the non-binary width data structure without segmenting in figure 2; and

mapper logic which maps a logical address into the physically arranged plural segments in figure 10 element 64.

In regards to claim 2, Lehman discloses the segments are the same size in figure 9 elements 90,93,96,99.

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## Allowable Subject Matter

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Claims 3 and 6 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 7-23 and allowed.

None of the prior art of record discloses applicant's method of storing non-binary width data in a binary width memory where a first memory block has 2<sup>n</sup> logical rows and a second memory block with 2<sup>n-1</sup> logical rows. Therefore claims 7-23 are allowed over the prior art of record.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul A Baker whose telephone number is (703)305-3304. The examiner can normally be reached on M-F 10am-6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mano Padmanabhan can be reached on (703)306-2903. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PB

Mano Rednarosh 3/5/04 MANO PADMANABHAN SUPERUSORY PATENT GRAMINER TC 2100